

Please replace the claims with the following claims:

sub C 7
B/2 1. (Amended) An isolated nucleic acid molecule selected from the group consisting of:
ID NO:1; and
(a) a nucleic acid molecule comprising the nucleotide sequence set forth in SEQ ID NO:1; and
(b) a nucleic acid molecule comprising nucleotides 63 to 4991 of the nucleotide sequence set forth in SEQ ID NO:1.

2. An isolated nucleic acid molecule which encodes a polypeptide comprising the amino acid sequence set forth in SEQ ID NO:2.

B/3 3. (Amended) An isolated nucleic acid molecule comprising the nucleotide sequence set forth in SEQ ID NO:1.

sub C 7 4. (Amended) An isolated nucleic acid molecule which encodes a naturally occurring allelic variant of a polypeptide having kinase activity comprising the amino acid sequence of SEQ ID NO:2, wherein the nucleic acid molecule hybridizes to a nucleic acid molecule comprising SEQ ID NO:1 or nucleotides 63 to 4991 of SEQ ID NO:1 in 0.5M sodium phosphate, 7% SDS at 65°C, followed by one or more washes in 0.2 X SSC at 65°C.

5. (Amended) An isolated nucleic acid molecule selected from the group consisting of:

a) a nucleic acid molecule comprising a nucleotide sequence which is at least 85% homologous to the nucleotide sequence of SEQ ID NO:1 or at least 90% homologous to nucleotides 63 to 4991 of SEQ ID NO:1;

b) a nucleic acid molecule comprising a fragment of at least 3500 nucleotides of a nucleic acid comprising the nucleotide sequence of SEQ ID NO:1 or nucleotides 63 to 4991 of SEQ ID NO:1, or a complement thereof;

c) a nucleic acid molecule which encodes a polypeptide comprising an amino acid sequence at least about 95% homologous to the amino acid sequence of SEQ ID NO:2; and

Cont
3/13
d) a nucleic acid molecule comprising a fragment of at least 3500 nucleotides
which encodes a polypeptide comprising a fragment of the amino acid sequence of SEQ ID
NO:2;

wherein the nucleic acid molecule encodes a polypeptide having kinase activity.

B14/sub C 7.
(Amended) An isolated nucleic acid molecule comprising a nucleotide sequence
which is completely complementary to the nucleotide sequence of the nucleic acid molecule of
any one of claims 1, 2, 3, 4, or 5.

8. An isolated nucleic acid molecule comprising the nucleic acid molecule of any
one of claims 1, 2, 3, 4, or 5, and a nucleotide sequence encoding a heterologous polypeptide.

9. A vector comprising the nucleic acid molecule of any one of claims 1, 2, 3,
4, or 5.

10. The vector of claim 9, which is an expression vector.

11. A host cell transfected with the vector of claim 9.

B15
12. (Amended) A method of producing a polypeptide comprising culturing a host cell
transfected with the vector of claim 9 in an appropriate culture medium to, thereby, produce the
polypeptide expressed by the nucleic acid molecule.

sub C 12 7
B16
22. (Amended) A kit comprising a nucleic acid molecule of any one of claims 1, 2, 3,
4, or 5 to a compound which selectively hybridizes in 0.5M sodium phosphate, 7% SDS at 65°C,
followed by one or more washes in 0.2 X SSC at 65°C, to a compound and instructions for use.

Please add the following claims:

B17
31. (New) The method defined in claim 12, further comprising
isolating the polypeptide.

32. (New) The isolated nucleic acid molecule of claim 1 which is nucleotides 63 to 4991 of SEQ ID NO:1.

33. (New) The isolated nucleic acid molecule of claim 1 which is SEQ ID NO:1.

34. (New) The isolated nucleic acid molecule of claim 5 which is a least 90% homologous to SEQ ID NO:1 or nucleotides 63 to 4991 of SEQ ID NO:1.

35. (New) The isolated nucleic acid molecule of claim 5 which is a least 95% homologous to SEQ ID NO:1 or nucleotides 63 to 4991 of SEQ ID NO:1.

36. (New) The isolated nucleic acid molecule of claim 5 which is a least 97% homologous to SEQ ID NO:1 or nucleotides 63 to 4991 of SEQ ID NO:1.

37. (New) The isolated nucleic acid molecule of claim 5 which is a least 99% homologous to SEQ ID NO:1 or nucleotides 63 to 4991 of SEQ ID NO:1.

38. (New) The isolated nucleic acid molecule of claim 5 which encodes a polypeptide comprising an amino acid sequence which is at least about 98% homologous to the amino acid sequence of SEQ ID NO:2.

39. (New) The isolated nucleic acid molecule of claim 5 which encodes a polypeptide comprising an amino acid sequence which is at least about 99% homologous to the amino acid sequence of SEQ ID NO:2.